

added, that Colour will not vanish or change its species but be diluted, and by adding more and more white it will be diluted more and more perpetually. Lastly, if red and violet be mingled, there will be generated according to their various Proportions various Purples, such as are not like in appearance to the Colour of any homogeneous Light, and of these Purples mixt with yellow and blue may be made other new Colours.

PROP. V. THEOR. IV.

Whiteness and all grey Colours between white and black, may be compounded of Colours, and the whiteness of the Sun's Light is compounded of all the primary Colours mixt in a due proportion.

The Proof by Experiments.

EXPER. IX.

Fig. 5.

The Sun shining into a dark Chamber through a little round Hole in the Window shut, and his Light being there refracted by a Prism to cast his coloured Image P T upon the opposite Wall : I held a white Paper V to that Image in such manner that it might be illuminated by the coloured Light reflected from thence, and yet not intercept any part of that Light in its passage from the Prism to the Spectrum. And I found that when the Paper was held nearer to any Colour than to the rest, it appeared of that Colour to which it approached nearest ; but when it was equally or almost

equally

equally distant
be equally illum
And in this last
were intercepted
appeared of the
was not intercept
with Lights of
green, blue and
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Paper, and beca
if it had been ei
intercepted) or
dominant in the
have tinged the
ing mixed with
tion, it made th
composition wit
several parts of
Spectrum, whil
the Air, do pe
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Let that Spect
the Lens M N a